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TRANSACTIONS AND ABSTRACTS.

1916.

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- 4:5:4':5'-Tetramethoxyhydrarzobenzene**, *N*:2:2'-*tri*nitro- (G. M. and R. ROBINSON), A., i, 167.
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- 4:4'-Tetramethyldiaminophenyl-*m*-tolylmethane**, 2'-amino- (V. BRAUN), A., i, 474.
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- 4:4':6:6'-Tetramethylindigotin**, 7:7'-diamino-, phthalyl derivative (BODINUS), A., i, 430.
- 2:2:5:5-Tetramethylpiperazine** (DUBSKY and WENSINK), A., i, 636.
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- Thiophen-2-arsinic acid**, 5-amino-, and 5-nitro-, and their derivatives (FINZI and FULLOTTI), A., i, 95.
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- o*-Toluenesulphonchlorobromo-anilides and -phenylchloroamides, and *p*-nitro- (CHATTAWAY and CLEMO), T., 103; A., i, 258.
- Toluenesulphonic acid, *o*-chloro-, preparation of salts of (ROHNER & Co.), A., i, 801.
- Toluene-*o*-sulphonic acid, aluminium salt (DUBSKY, BEER, and FRANK), A., i, 542.
- 2-Toluenesulphonic acid, *o*-hydroxylaminophenyl, *o*-nitrophenyl, and *o*-nitrosohydroxylaminophenyl esters, and their metallic salts (BAUDISCH, PISTOR, and SILBERBLATT), A., i, 388.
- 4-Toluenesulphonic acid, *o*-nitrosohydroxylaminophenyl ester, complex metallic salts of (BAUDISCH, GUREWITSCH, and ROTHSCILD), A., i, 388.
- 4-Toluenesulpho-*m*-nitro-anilide and -methylanilide (BAUDISCH, PISTOR, and SILBERBLATT), A., i, 389.
- p*-Toluenesulphonyl-*d*-alanine, ethyl ester (FISCHER and v. MECHEL), A., i, 803.
- p*-Toluenesulphonylaminoacetic acid, ethyl ester (FISCHER and v. MECHEL), A., i, 803.
- 4-Toluenesulphonyl-*m*-aminophenylhydroxylamine, and its salts, and nitroso- (BAUDISCH, PISTOR, and SILBERBLATT), A., i, 389.
- p*-Toluenesulphonyl-*d*-*N*-benzylalanine (FISCHER and v. MECHEL), A., i, 803.
- p*-Toluenesulphonyl-*N*-benzylglycine (FISCHER and v. MECHEL), A., i, 803.
- m*-4-Toluenesulphonylmethylaminophenylhydroxylamine, and its salts and nitroso- (BAUDISCH, PISTOR, and SILBERBLATT), A., i, 389.
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- o*-Toluic acid, 5:6-dihydroxy- (PERKIN), T., 919.
- Toluic acids, *o*- and *m*-hydroxy-, *p*-aminophenyl esters, salts of (ABELIN), A., i, 398.
- Toluidine chlorates (DATTA and CHOUDHURY), A., i, 470.
- α -*p*-Toluidinophenylacetonitrile, *o*-nitro- (v. WALTHER and HÜBNER), A., i, 560.
- 2-*p*-Toluoylantran-10-ol, acetate of (SCHAARSCHMIDT and IRINEU), A., i, 408.
- 2:5-Tolquinones, bromo- and chloro-, and their derivatives (KEHRMANN, MUSSMANN, FACCHINETTI, SILVA, and KELETI), A., i, 210.

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- 2:5-Tolquinones, chloro-, constitution of oximes of (KEHRMANN and HEMPEL), A., i, 657.
- o*-Tolyl methyl ethers, iodo-, and iodo-nitro- (ROBINSON), T., 1084; A., i, 805.
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- m*-Tolyl methyl ether, 2-hydroxy- (MAJIMA and OKAZAKI), A., i, 808.
- p*-Tolyl methyl ethers, iodonitro-, dinitro-, and *tr*-nitrohydroxy- (ROBINSON), T., 1088; A., i, 805.
- 2-*m*-Tolylamino-5-methyl-4:5-dihydrothiazole (DAINS, ROBERTS, and BREWSTER), A., i, 434.
- 1-*o*-Tolyl-4-anilinomethylene-3-methyl-5-pyrazolone (DAINS, O'BRIEN, and JOHNSON), A., i, 676.
- p*-Tolylazoformhydroxamic acid (PONZIO), A., i, 610.
- γ -Tolyl- γ -benzyltriazene- α -cyanaminoiminomethanes (v. WALTHER and GRIESHAMMER), A., i, 171.
- 1-*p*-Tolyl-4-*p*-bromoanilinomethylene-3-methyl-5-pyrazolone (DAINS, O'BRIEN, and JOHNSON), A., i, 676.
- p*-Tolylidiacetonamine oxalate, and nitroso- (EVENS, GIFFORD, and GRIFFITHS), A., i, 72.
- p*-Tolyl-*s*-diantipyrilcarbamide (GÖTTLER), A., i, 84.
- 2:3-Tolylenediamine, 5-nitro-, and its diacetyl derivative (KYM and RINGER), A., i, 81.
- 1-*o*- and -*p*-Tolyl-4-*o*-ethoxyanilino-methylene-3-methyl-5-pyrazolones (DAINS, O'BRIEN, and JOHNSON), A., i, 676.
- Tolylguanidines, *s*-cyano- (v. WALTHER and GRIESHAMMER), A., i, 173.
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- Tolylhydrazines, bromo-, and nitro-bromo-, and their derivatives (CHATTAWAY and HODGSON), T., 582; A., i, 509.
- 2-*o*-Tolylimino-3-*o*-tolyl-5-anilinomethylenetetrahydrothiazole-4-one (DAINS and STEPHENSON), A., i, 751.
- 2-*p*-Tolylisatogen, 6-cyano-, and 6-nitro- (PEIFFER, BRAUDE, FRITSCH, HALBERSTADT, KIRCHHOFF, KLÉBER, and WITTKOPF), A., i, 331.
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- 1-Tolyl-3-methylpyridazinones (MUNGOLI), A., i, 78.

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- γ -Tolyl- γ -methyltriazene- α -cyanaminoiminomethanes** (V. WALTHER and GRIESHAMMER), A., i, 171.
- γ -*p*-Tolyl- γ -*p*-nitrobenzyltriazene- α -cyanaminoiminomethane** (V. WALTHER and GRIESHAMMER), A., i, 171.
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- p*-Tolylcyclopentamethylenearsine**, and its salts (GRÜTTNER and WIERNIK), A., i, 93.
- p*-Tolylcyclopentamethylenephosphine**, and its salts (GRÜTTNER and WIERNIK), A., i, 92.
- m*-Tolylpropyldimethylamine** (V. BRAUN and AUST), A., i, 422.
- 3-*m*-Tolyl- ψ -thiohydantoin**, and its derivatives (BECKURTS and FRERICHS), A., i, 745.
- Tolyl- ψ -thiohydantoins**, nitro-, and their derivatives (BECKURTS and FRERICHS), A., i, 746.
- 1-*p*-Tolyl-4-*o*- and -*m*-toluidinomethylene-3-methyl-5-pyrazolone** (DAINS, O'BRIEN, and JOHNSON), A., i, 676.
- α -Tolyltriazene- γ -cyanaminoiminomethanes**. See Tolueneazodicyanodiamides.
- o*- and -*p*-Tolylxanthylcarbamides** (ADRIANI), A., i, 155.
- 1-*o*-Tolyl-4-*m*-xyldidinomethylene-3-methyl-5-pyrazolone** (DAINS, O'BRIEN, and JOHNSON), A., i, 676.
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- β -Triacetylmethylxyloside** (DALE), A., i, 117.
- Triacetylxylose**, bromo- (DALE), A., i, 117.
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- 1:2:4-Triazole-5-azo- β -naphthol** (MORGAN and REILLY), T., 159; A., i, 295.
- 1:2:4-Triazole-5-azo- β -naphthylamine** (MORGAN and REILLY), T., 159; A., i, 295.
- 1:2:4-Triazole-5-isodiazohydroxide** (MORGAN and REILLY), T., 160; A., i, 295.
- 1:3:5-Tri-*p*-chlorophenylbenzene** (GAS-TALDI and CHERCHI), A., i, 31.
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- Tridecoic acid**, synthesis of (LEVENE, WEST, ALLEN, and VAN DER SCHEER), A., i, 11.
- Tridens flavus***, cyanogenesis in (VIEHOVER, JOHNS, and ALSBERG), A., i, 538.
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- Triethylphosphine**, action of, on indigotin (KISHNER), A., i, 290.
- Triethylphosphinoacetaldehyde**, bromo-, and chloro-, and their derivatives (CALDWELL), T., 283; A., i, 311.
- Triethylsulphonium nitrite** (ADDY and MACBETH), T., 755; A., i, 627.
- Trimesityltelluronium salts** (LEDERER), A., i, 810.
- s*-Trimethoxybenzaldehyde**, compound of *d*-aminobenzyl- β -naphthol and (BETTI and CONESTABILE), A., ii, 279.
- 7:2':3'-Trimethoxy-3-benzylideneisocoumaranone** (MOSIMANN and TAMBOR), A., i, 735.
- 2:4:6-Trimethoxyphenyl 2:4-dimethoxystyryl ketone** (MOSIMANN and TAMBOR), A., i, 822.
- 2:4:6-Trimethoxyphenyl 4-hydroxystyryl ketone**, and its acetate (MOSIMANN and TAMBOR), A., i, 822.
- Trimethylacetylsemicarbazide** (BOUGAULT), A., i, 764.
- 2:7:9-Trimethyl-4:5-benzoxazole**, and its salts (V. AUWERS, BORSCHÉ, and STEINICH), A., i, 35.
- 4:6:7-Trimethyl-1:2-benzopyran**, 2-thio- (GHOSH), A., i, 65.
- Trimethylcotoporphyrin**, and its salts (FISCHER), A., i, 575, 775.
- 2:4:5 Trimethylcoumarilic acid**, and its silver salt (DEY), A., i, 61.
- 4:6:7-Trimethylcoumarin**, salts and derivatives of (GHOSH), A., i, 65.

- 4:6:7-Trimethylcoumarin**, 3-chloro- (DEY), A., i, 61.
- Trimethylethylene**. See β -Methyl- $\Delta\beta$ -butene.
- 2:3:5-Trimethyl-1-ethylpyrrole**, and its mercurichloride (HESS, WISSING, and SUCHIER), A., i, 71.
- 2:3:5-Trimethyl-3-ethylpyrrolenine**, and its salts (HESS, WISSING, and SUCHIER), A., i, 70.
- 1:3:3-Trimethylcyclohexan-5-one**, derivatives of (WALLACH, GERHARDT, and JESSEN), A., i, 488.
- 1:1:3-Trimethyl-2- γ -hydroxy-*n*-butylcyclohexane**, and its acetate (SKITA and STUCKART), A., i, 16.
- 1:3:3-Trimethylcyclopentan-5-one**, and its derivatives (WALLACH, GERHARDT, and JESSEN), A., i, 488.
- 2:3:5-Trimethylphenyl methyl ether** (v. AUWERS and BORSCHKE), A., i, 86.
- Trimethylsulphine chlorate** (DATTA and CHOUDHURY), A., i, 470.
- Trimethylsulphonium nitrite** (ADDY and MACBETH), T., 755; A., i, 627.
- 1:6:8-Trimethyl-1:2:3:4-tetrahydroquinoline**, 6- and 8-hydroxy- (v. BRAUN), A., i, 648.
- Trimethylurinoporphyrin**, zinc salt (FISCHER), A., i, 775.
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- Triphenoxyphosphine selenide** (STRECKER and GROSSMANN), A., i, 441.
- Triphenylcarbinol**, molecular compounds of (NORRIS, ROONEY, MURPHY, and DODGE), A., i, 381.
- Triphenylcarbinol**, bromo-, chloro-, and nitro-hydroxy- (GOMBERG and VAN STONE), A., i, 641.
- p*-hydroxy-, preparation of (GOMBERG and JICKLING), A., i, 29.
- Triphenylchloromethane**, molecular compounds of (NORRIS, ROONEY, MURPHY, and DODGE), A., i, 381.
- Triphenylfurylethanol** (SCHLENK and OCHS), A., i, 380.
- Triphenylmethane derivatives**, colour reactions of (NOELTING and KEMPF), A., i, 43.
- Triphenylmethanecarboxylic acids**, hydroxy-, preparation of (FARBENFABRIKEN VORM. F. BAYER & CO.), A., i, 264.
- Triphenylmethyl** (GOMBERG and SCHOEPFLE), A., i, 28; (GOMBERG and JICKLING), A., i, 29; (GOMBERG and VAN STONE), A., i, 639.
- sodium derivative, reactions of (SCHLENK and OCHS), A., i, 379.
- Triphenylmethylcarbamide** (DAINS, ROBERTS, and BREWSTER), A., i, 433.
- Triphenylmethylsulphinic acid**, sodium salt, and its hydrate (SCHLENK and OCHS), A., i, 380.
- Triphenylmethyltetramethylammonium** (SCHLENK and HOLTZ), A., i, 385.
- ay*-Triphenyl- $\Delta\beta$ -pentene-*ae*-dionedi-semicarbazone** (DILTHEY), A., i, 830.
- 1:1:2-Triphenylcyclopropane-3-carboxylic acid**, ethyl ester (STAUDINGER, ANTHES, and PFENNINGER), A., i, 851.
- 2:4:6-Triphenylpyranol**, and its salts and derivatives (DILTHEY), A., i, 830.
- Triphenylstibine**, action of antimony trichloride with (GRÜTTNER and WIERNIK), A., i, 96.
- Triphenyltelluronium hydroxide**, and its picrate (LEDERER), A., i, 142.
- Trisbenzeneazo-1:6-dihydroxynaphthalene** (FISCHER and BAUER), A., i, 719.
- Trisilane** (STOCK and SOMIESKI), A., ii, 321.
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